

Bill Of Materials for Willow Revised pwr Supply

Design Title Willow Revised pwr Supply
Author Robert N Dee
Document Number
Revision
Design Created Sunday, August 23, 2015
Design Last Modified Sunday, August 23, 2015
Total Parts In Design 67

18 Resistors

| <u>Quantity</u> | <u>References</u> | <u>Value</u> | <u>Stock Code</u> | <u>Package Type</u> | <u>notes</u> |
|-----------------|-------------------|--------------|-------------------|---------------------|--------------|
| 5 | R1,R4,R9,R12-R13 | 10k | | 0805 | |
| 2 | R2,R6 | 1 | 1/4 Watt | Thru hole | |
| 3 | R3,R5,R8 | 750k | | 0805 | |
| 1 | R7 | 470 | 1/2 Watt | Thru hole | |
| 1 | R10 | 499k | | 0805 | |
| 1 | R11 | 1k | | 0805 | |
| 1 | R14 | 47k | | 0805 | |
| 1 | R15 | 3.6M | | 0805 | |
| 1 | R16 | 390 | | 0805 | |
| 1 | R17 | 4.7k | | 0805 | |
| 1 | R18 | 47k | | | |

Sub-totals:

30 Capacitors

| <u>Quantity</u> | <u>References</u> | <u>Value</u> | <u>Stock Code</u> | <u>Package Type</u> | <u>notes</u> |
|-----------------|-------------------------------------------|--------------|-------------------|---------------------|--------------|
| 3 | C1,C13,C29 | .01uF | MLCC | 0805 | |
| 1 | C2 | 10uF | MLCC | 0805 | |
| 2 | C3,C16 | 22u | MLCC | 1206 | |
| 12 | C4-C6,C12,C14-C15,C18-C19,C24-C25,C27-C28 | .1u | MLCC | 0805 | |
| 2 | C7,C22 | 1000uF | Generic | | |
| 2 | C8,C17 | 220u | Generic | | |
| 1 | C9 | 10u | Generic | 1206 | |
| 1 | C10 | 10u | Generic | 0805 | |
| 1 | C11 | 1000u | Generic | | |
| 2 | C20-C21 | 3.3u | MLCC | 1210 | |
| 1 | C23 | 1u | MLCC | 0805 | |
| 2 | C26,C30 | 10u | MLCC | 0805 | |

Sub-totals:

7 Diodes

| <u>Quantity</u> | <u>References</u> | <u>Value</u> | <u>Stock Code</u> | <u>Package Type</u> | <u>notes</u> |
|-----------------|-------------------|--------------|-------------------|---------------------|--------------|
| 7 | D1-D7 | 1N4007 | | Thru hole | |

Sub-totals:

12 Miscellaneous

| <u>Quantity</u> | <u>References</u> | <u>Value</u> | <u>Stock Code</u> | <u>Package Type</u> | <u>notes</u> |
|-----------------|-------------------|--------------|-------------------|---------------------|--------------|
| 1 | BR1 | MDB10S | MDB10S | SMD | |
| 1 | IC1 | LT1964-5 | LT1964ES5-5 | SOT223-5 | |
| 1 | IC2 | LT3080 | LT3082IST#PBF | SOT223-3 | |
| 2 | IC3,IC5 | LT3082 | LT3082IST#PBF | SOT223-3 | |
| 1 | IC4 | TPS7A3301K | TPS7A3301KC | TO220-7 | |

| | | | | |
|---|-----|----------|------------------------|------------|
| 1 | J1 | 30VAC-ct | SIL3 | .1 Spacing |
| 1 | J2 | Gain Pwr | SIL2 | .1 Spacing |
| 1 | J3 | Output | SIL8 | .1 Spacing |
| 1 | RV1 | 100K | Digikey 3252W-104LF-ND | |
| 1 | U1 | 78L12 | | TO-92A |
| 1 | U2 | 78L03 | | SOT89 |

Sub-totals:

Totals: